

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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TITLE : COMPACT OF ACTIVATED CARBON, ITS PRODUCTION AND WATER PURIFIER BY USING THE SAME

ABSTRACT : PROBLEM TO BE SOLVED: To provide a water purifier capable of removing free chlorine, musty smell, trihalomethane and a heavy metal.

SOLUTION: This water purifier is obtained by compacting a mixture of a fibrous activated carbon, titanium dioxide, silicon dioxide and a binder to provide a compact, forming the compact into a cartridge and inserting the cartridge in a housing. The fibrous activated carbon has  $\geq 1,300$  m<sup>2</sup>/g specific surface area,  $\geq 0.20$  cc/g accumulated pore volume occupied by pores having  $\leq 9$   $\text{\AA}$  radii, and the accumulated pore volume regulated so as to be  $\geq 50\%$  of the accumulated pore volume occupied by the pores having  $\leq 100$   $\text{\AA}$  radii.

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